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Fig. 1A

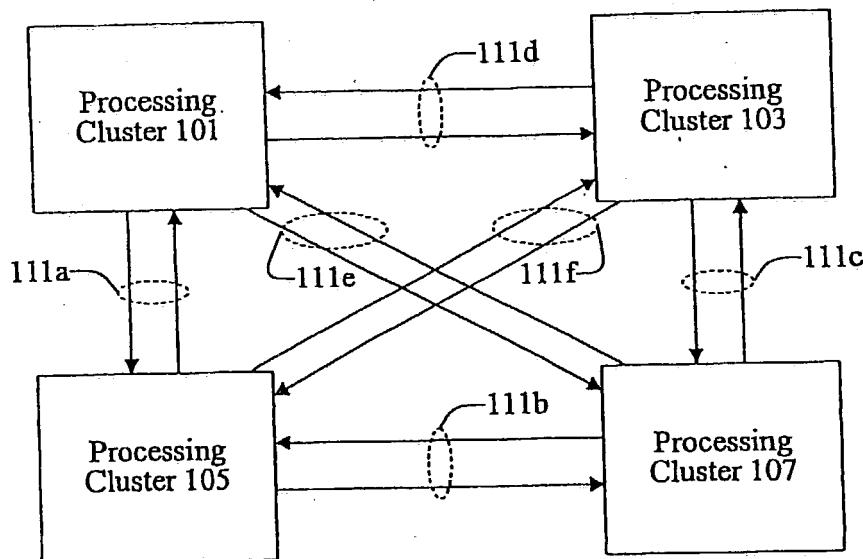
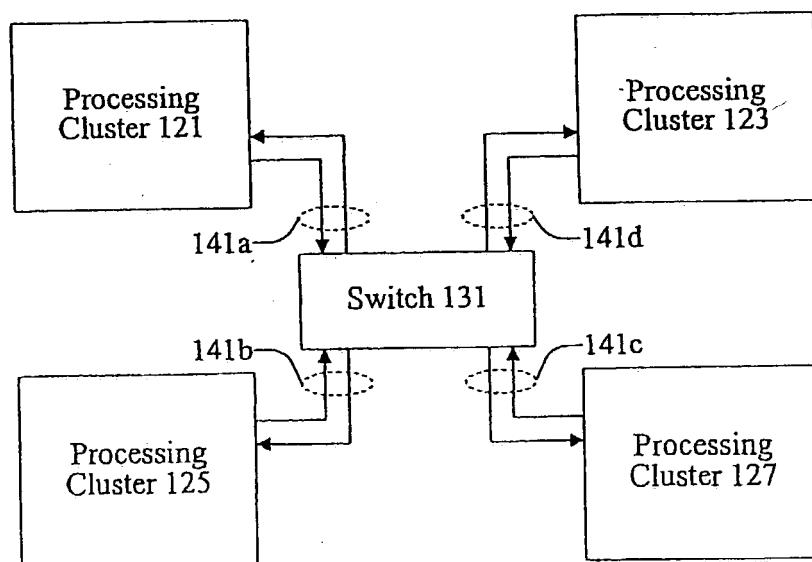


Fig. 1B



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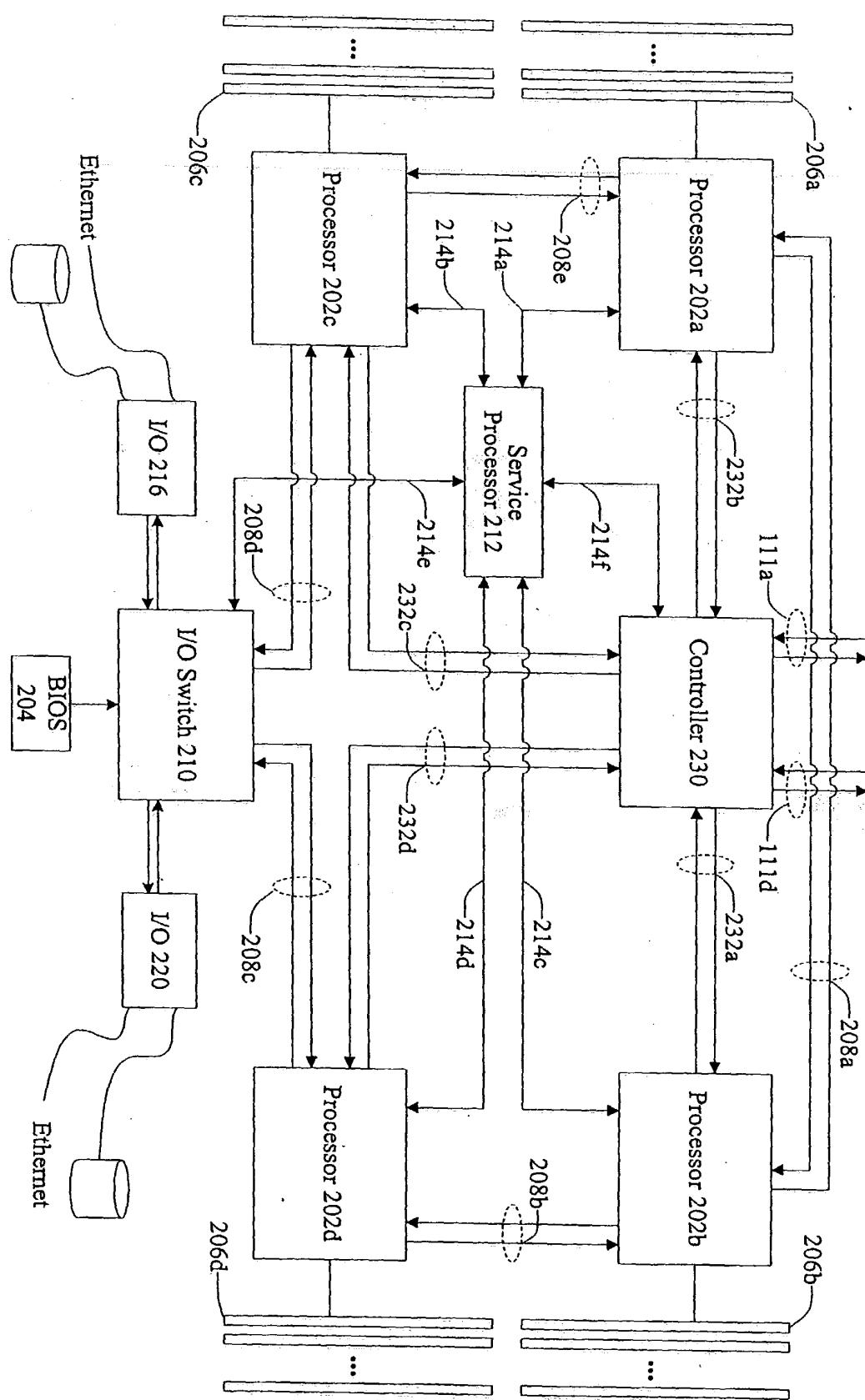
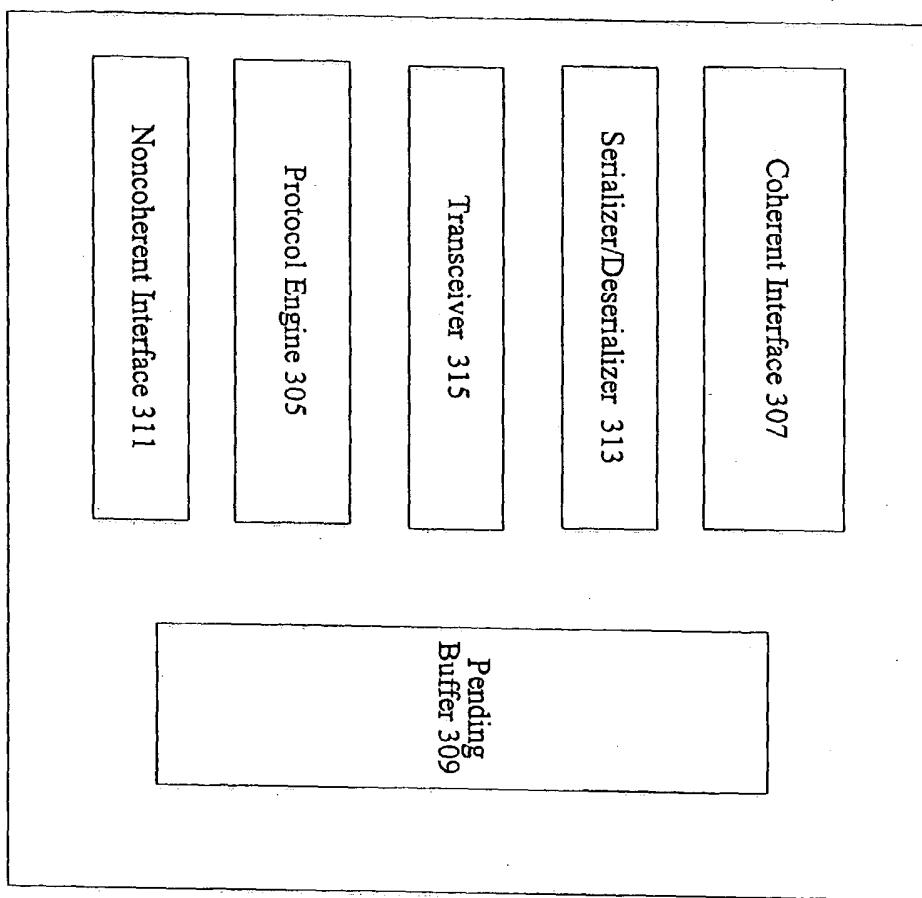


Fig. 2

Fig. 3



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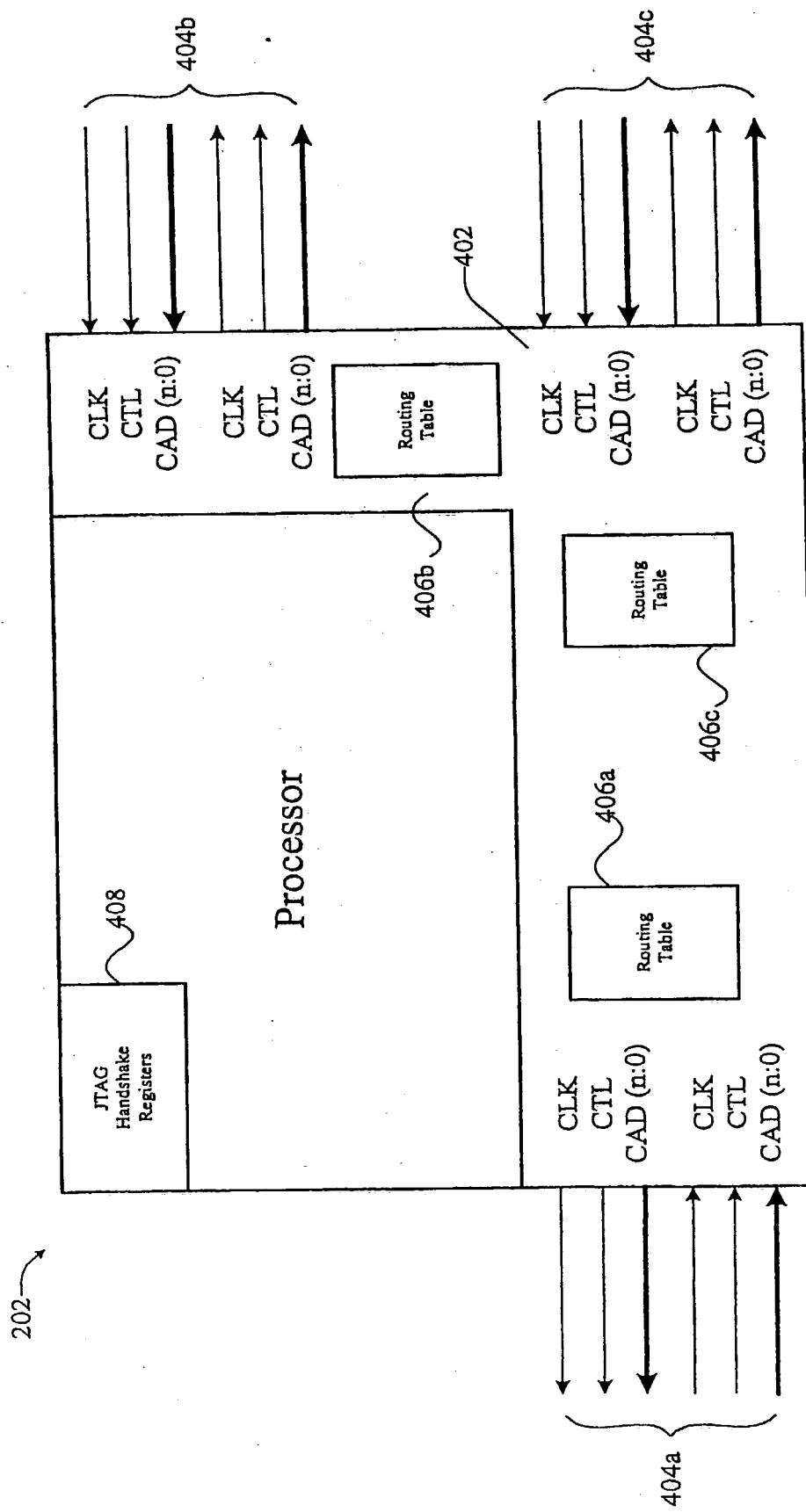


Fig. 4

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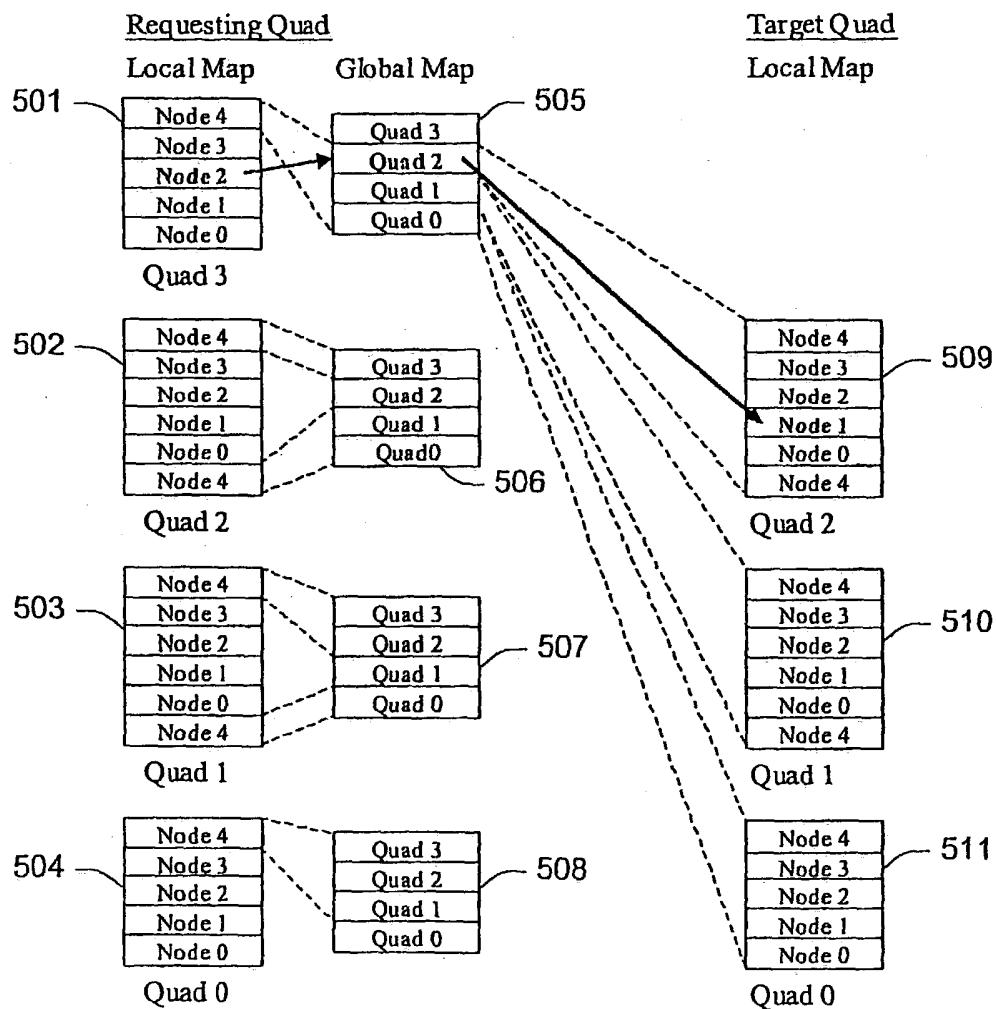
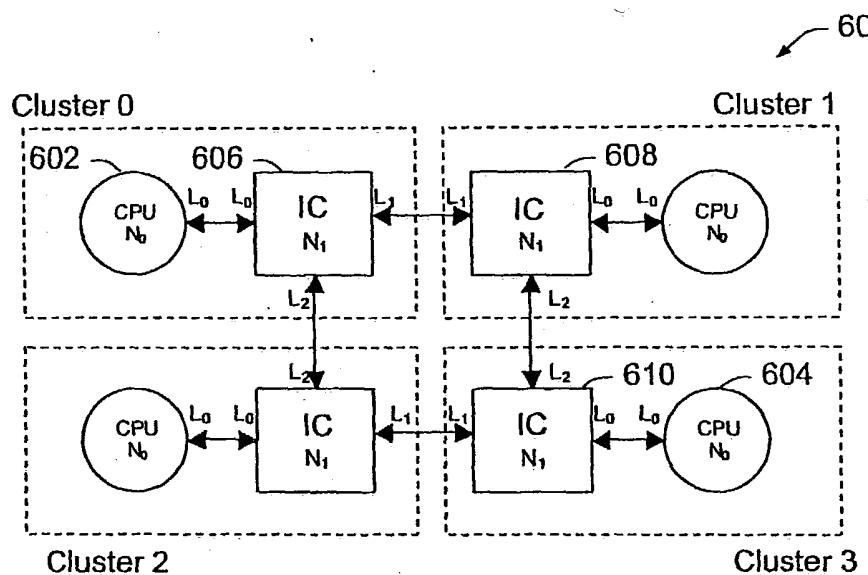


Fig. 5



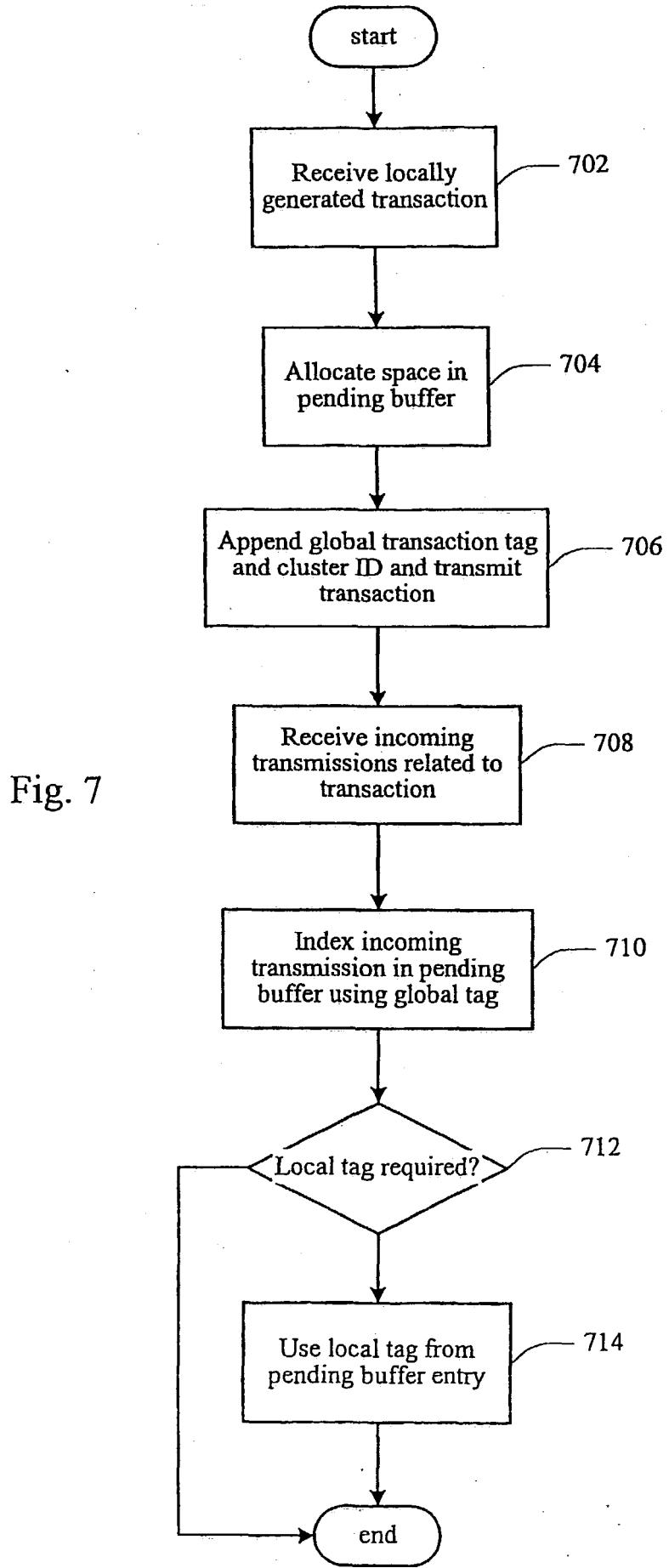
L# - Link number
 N# - Node number

Fig. 6A

| | | Local Table | | Global Table | | | |
|-----------|--------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | Dest Node | | Dest Cluster | | | |
| Source | | N ₀ | N ₁ | C ₀ | C ₁ | C ₂ | C ₃ |
| Cluster 0 | Node 0 | X | L ₀ | NA | NA | NA | NA |
| | Node 1 | L ₀ | X | X | L ₁ | L ₂ | L ₁ |
| Cluster 1 | Node 0 | X | L ₀ | NA | NA | NA | NA |
| | Node 1 | L ₀ | X | L ₁ | X | L ₂ | L ₂ |
| Cluster 2 | Node 0 | X | L ₀ | NA | NA | NA | NA |
| | Node 1 | L ₀ | X | L ₂ | L ₂ | X | L ₁ |
| Cluster 3 | Node 0 | X | L ₀ | NA | NA | NA | NA |
| | Node 1 | L ₀ | X | L ₁ | L ₂ | L ₁ | X |

Fig. 6B

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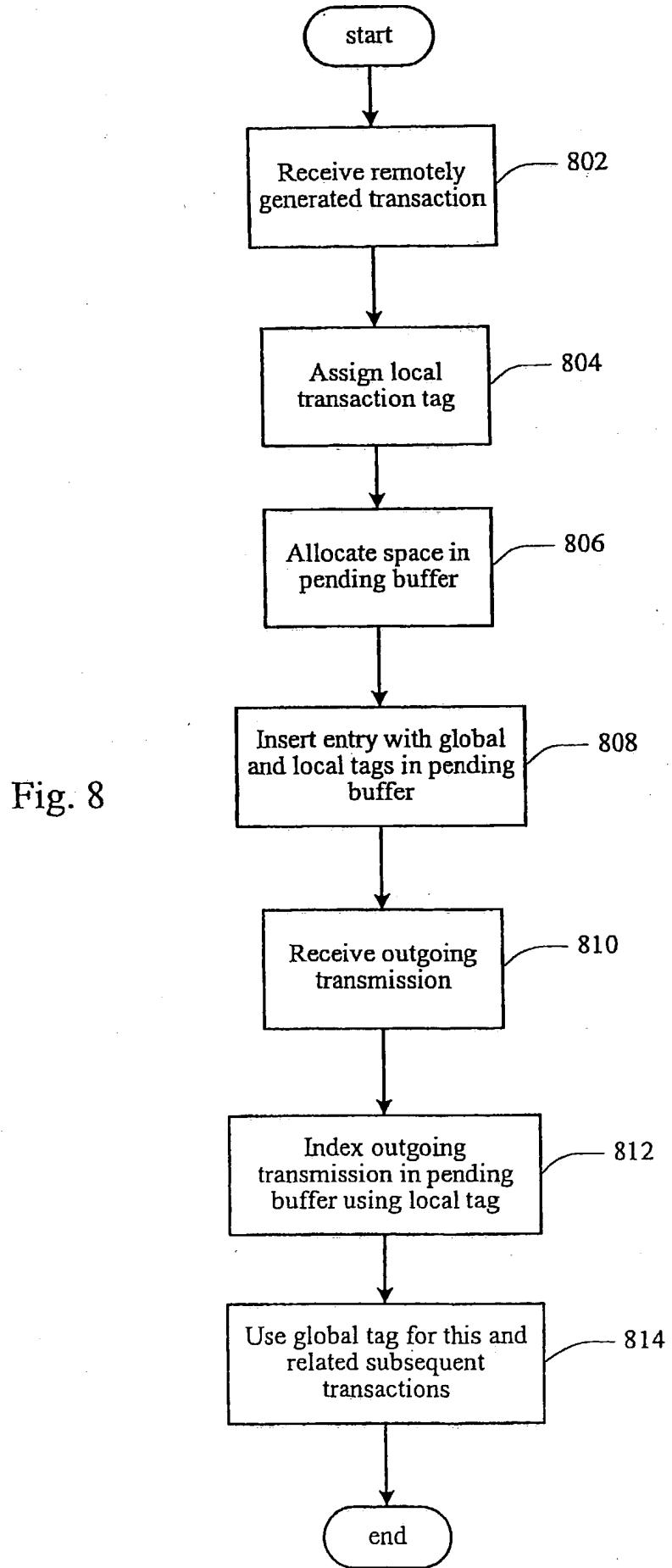
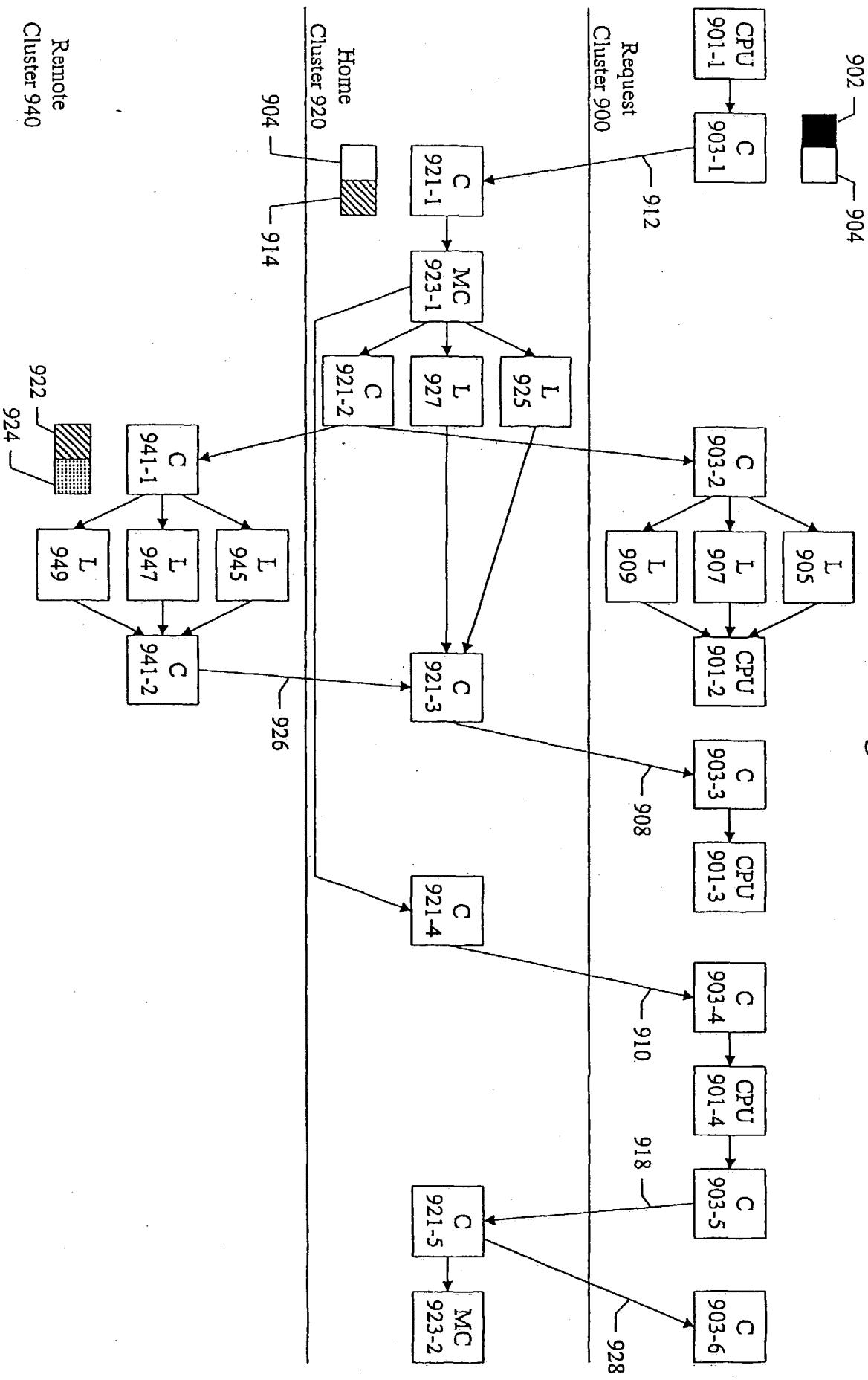


Fig. 8

Fig. 9



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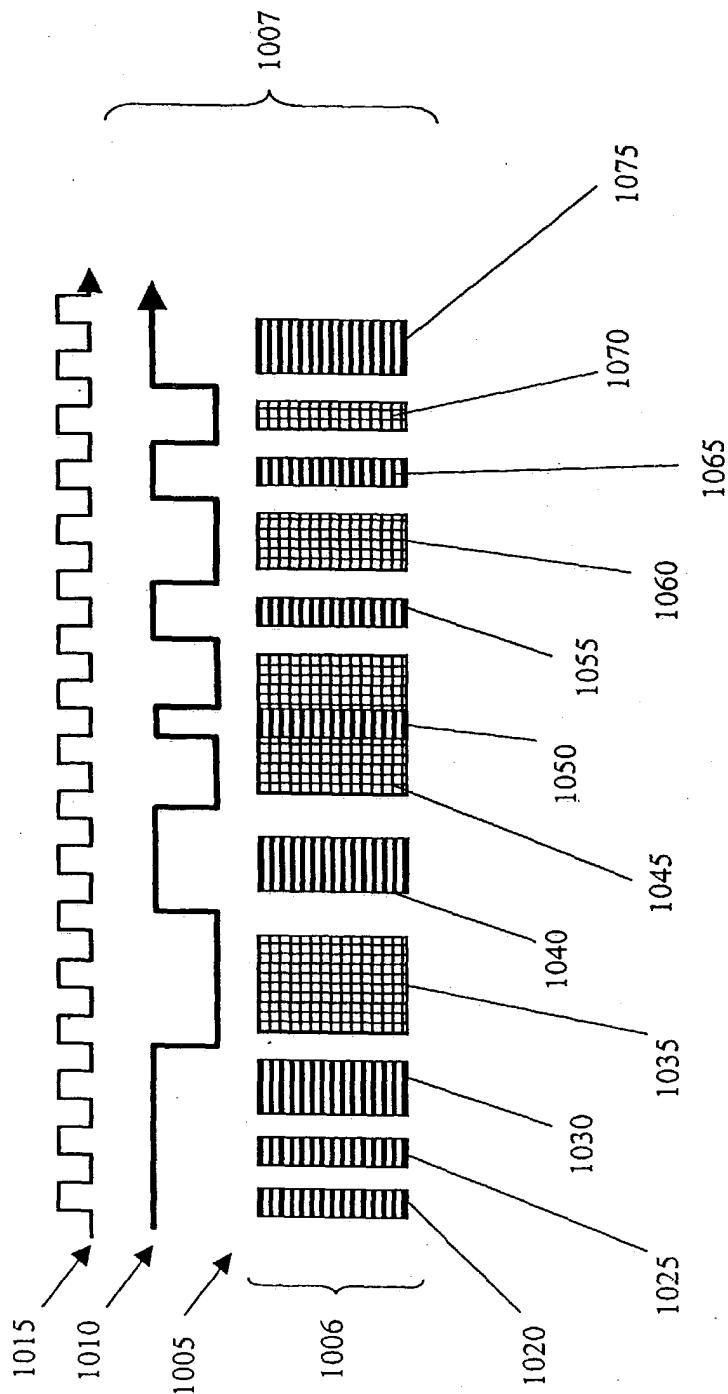
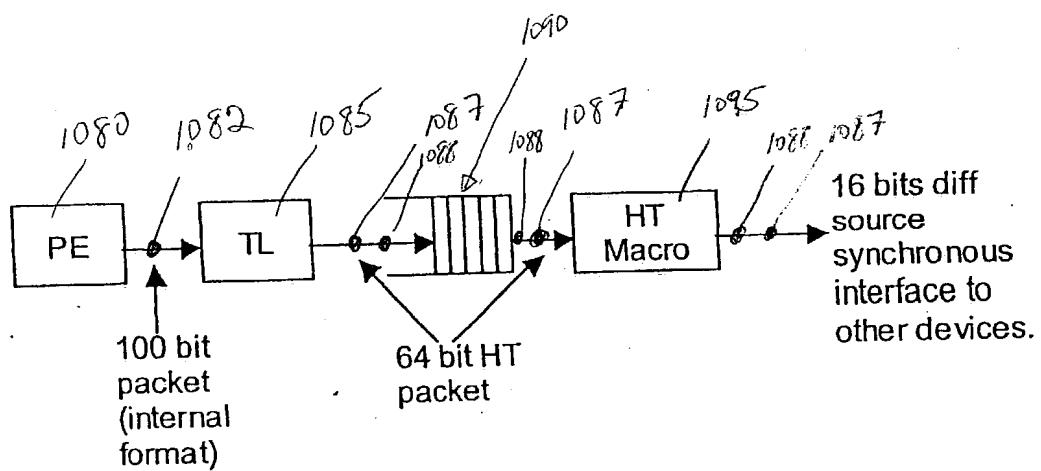


Fig. 10

Fig. 10A



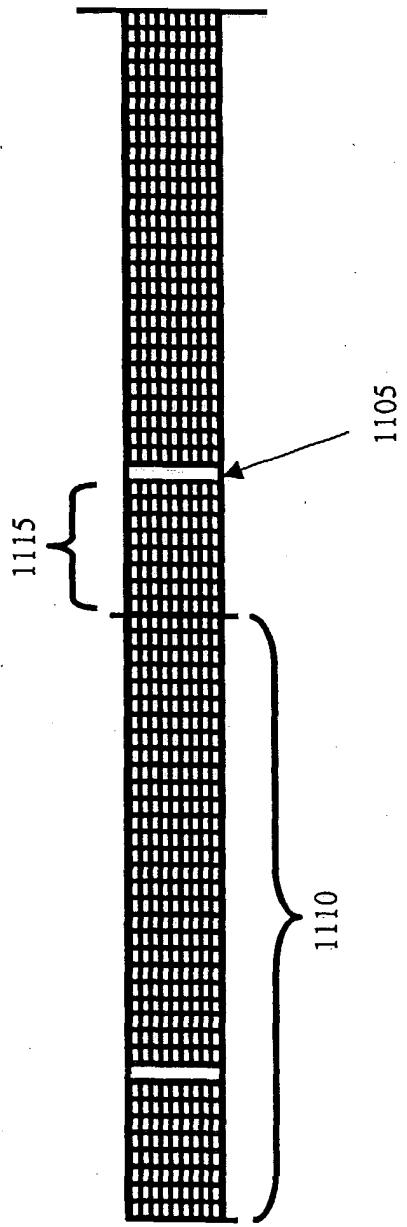


Fig. 11A

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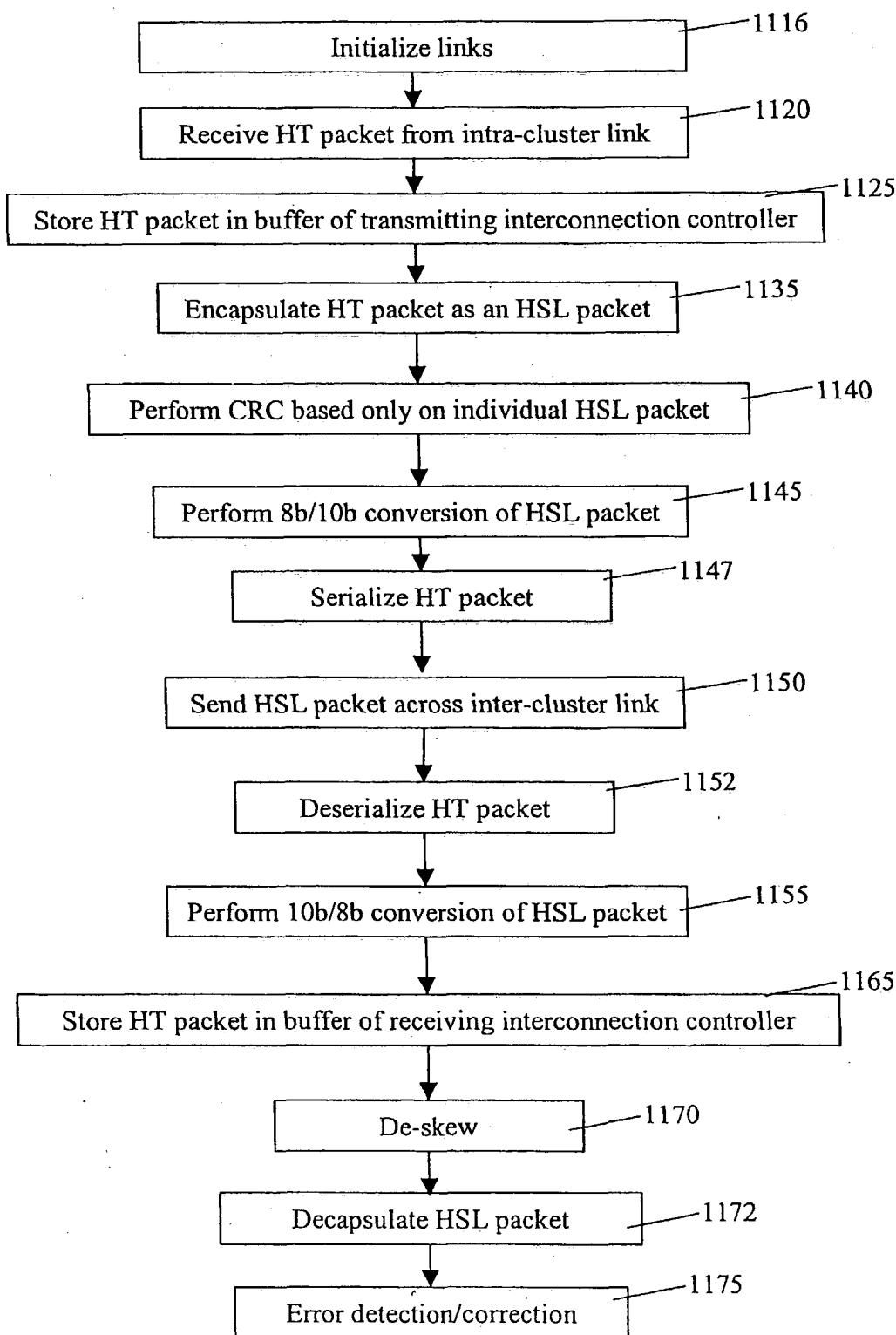


Fig. 11B

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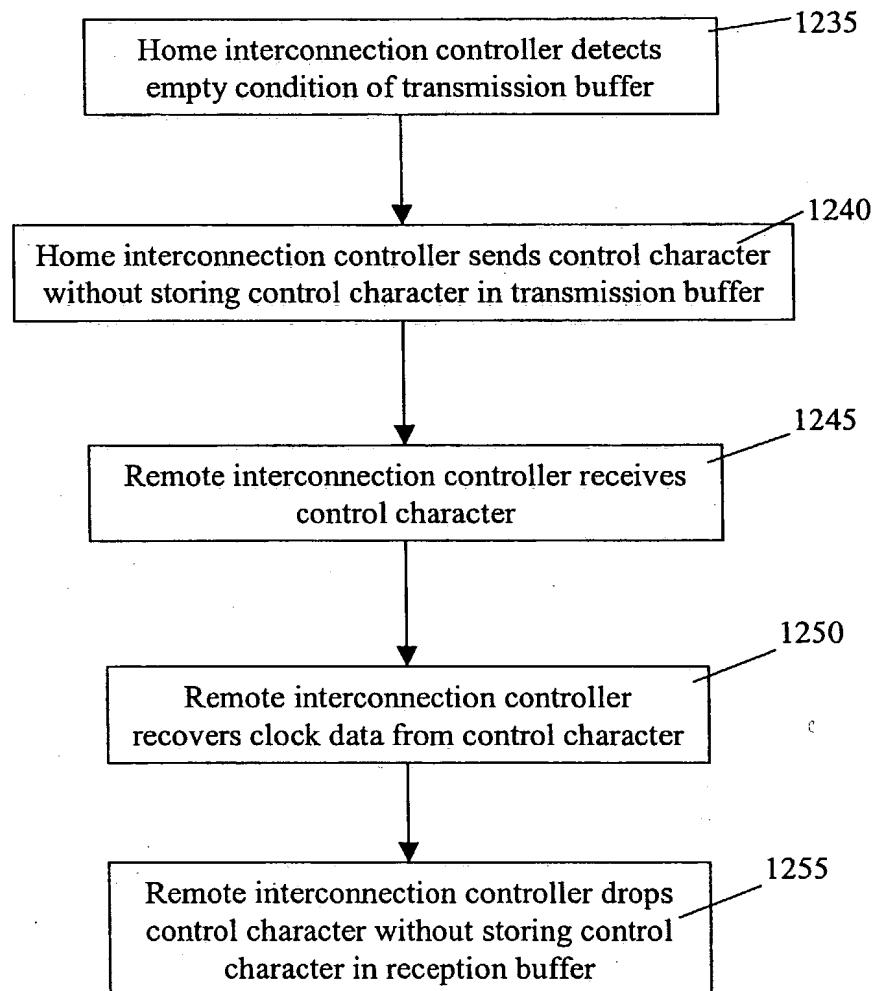


Fig. 12A

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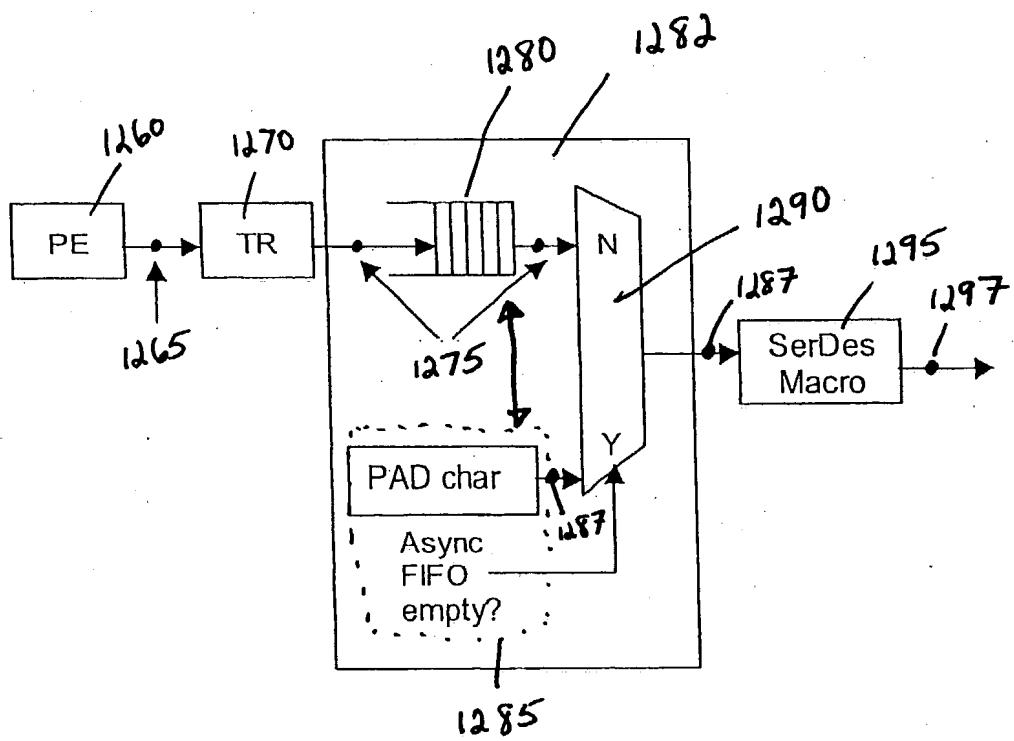


Fig. 12B

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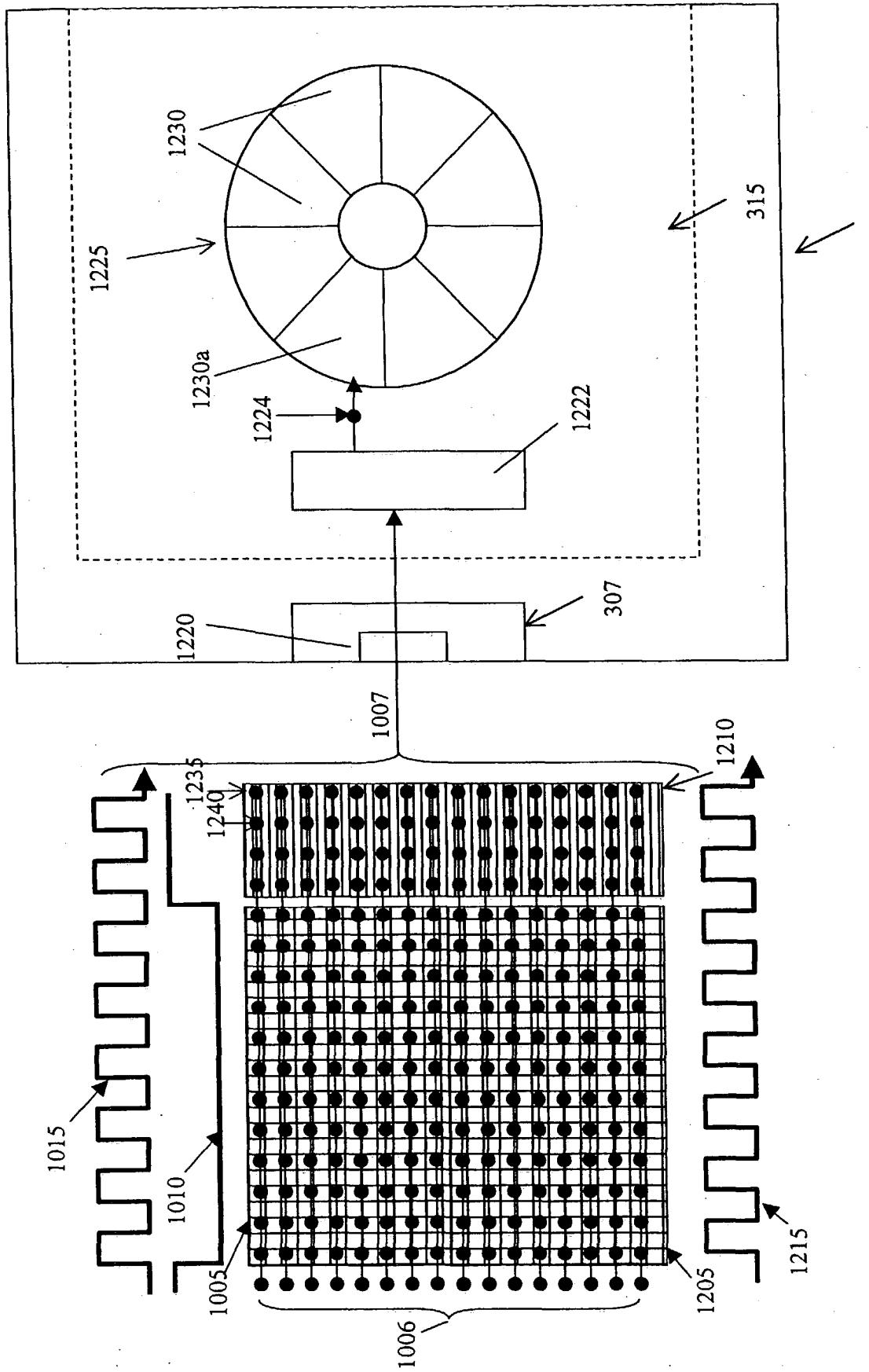


Fig. 12C

| | | | | | |
|------------------|-------------------------|-------------|----------|--------------------|--------------|
| 32b HT packet | 32 b ACK/NACK packet | 6b SeqID | 2b PT | 12b Remote bits | 12b CRC12 |
|------------------|-------------------------|-------------|----------|--------------------|--------------|

Fig 13A: Protocol Packet- 32b Control

| | | | | | |
|-------------------------|---------------------------|-------------|----------|--------------------|--------------|
| 32b (31:0) HT packet | 32 b (63:32) HT packet | 6b SeqID | 2b PT | 12b Remote bits | 12b CRC12 |
|-------------------------|---------------------------|-------------|----------|--------------------|--------------|

Fig 13B: Protocol Packet- 64b Control.

| | | | | | |
|-------------|----------------|-------------|----------|---------------------|--------------|
| 32b Data | 32 b unused | 6b SeqID | 2b PT | 8b Packet length | 16b CRC16 |
|-------------|----------------|-------------|----------|---------------------|--------------|

Fig. 13C: Data Packet- 32b.

| | | | | | |
|--------------------|----------------------|-------------|----------|---------------------|--------------|
| 32b (31:0) Data | 32 b (63:32) Data | 6b SeqID | 2b PT | 8b Packet length | 16b CRC16 |
|--------------------|----------------------|-------------|----------|---------------------|--------------|

Fig. 13D: Data Packet- 64b.

| | | | | | |
|---------------------|----------------------|---------------|----------|---------------------|----------------|
| 32b (31:0) Data | 32 b (63:32) Data | 6b SeqID | 2b PT | 8b Packet length | 16 b unused |
| 32b (95:64) Data | 32 b unused | 16b unused | | | 16b CRC16 |

Fig 13E: Data Packet- 96b.

| | | | | | |
|---------------------|----------------------|---------------|----------|---------------------|----------------|
| 32b (31:0) Data | 32 b (63:32) Data | 6b SeqID | 2b PT | 8b Packet length | 16 b unused |
| 32b (95:64) Data | 32b (127:96) Data | 16b unused | | | 16b CRC16 |

Fig 13F: Data Packet- 128b.

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| | | | | | |
|---------------------|----------------------|------------------------|----------|---------------------|----------------|
| 32b (31:0) Data | 32 b (63:32) Data | 6b SeqID | 2b PT | 8b Packet length | 16 b unused |
| 32b (95:64) Data | 32b (127:96) Data | 32 b (159:128) Data | | | |
| 32 b unused | 32 b unused | 16b unused | | 16b CRC16 | |

Fig 13G: Data Packet- 160b.

| | | | | | |
|------------------------|----------------------|------------------------|----------|---------------------|----------------|
| 32b (31:0) Data | 32 b (63:32) Data | 6b SeqID | 2b PT | 8b Packet length | 16 b unused |
| 32b (95:64) Data | 32b (127:96) Data | 32 b (159:128) Data | | | |
| 32 b (191:160) Data | 32 b unused | 16 b unused | | 16b CRC16 | |

Fig 13H: Data Packet- 192b.

| | | | | | |
|-----------------------|-----------------------|------------------------|----------|---------------------|----------------|
| 32b (31:0) Data | 32 b (63:32) Data | 6b SeqID | 2b PT | 8b Packet length | 16 b unused |
| 32b (95:64) Data | 32b (127:96) Data | 32 b (159:128) Data | | | |
| 32b (191:160) Data | 32b (223:192) Data | 32 b (255:224) Data | | | |
| 32b (303:272) Data | 32b (335:304) Data | 32 b (367:336) Data | | | |
| 32b (383:368) Data | 32b (415:384) Data | 32 b (447:416) Data | | | |
| 32b (479:448) Data | 32b (511:480) Data | 16 b unused | | 16b CRC16 | |

Fig 13I: Data Packet- 512b.

| | | | | | |
|---------|--------|--------|--------|-------|-------------|
| Command | 8b Rsv | 8b Rsv | 1b Rsv | SeqID | 1b Valid |
|---------|--------|--------|--------|-------|-------------|

Fig 13J: ACK/NACK Packet Format.

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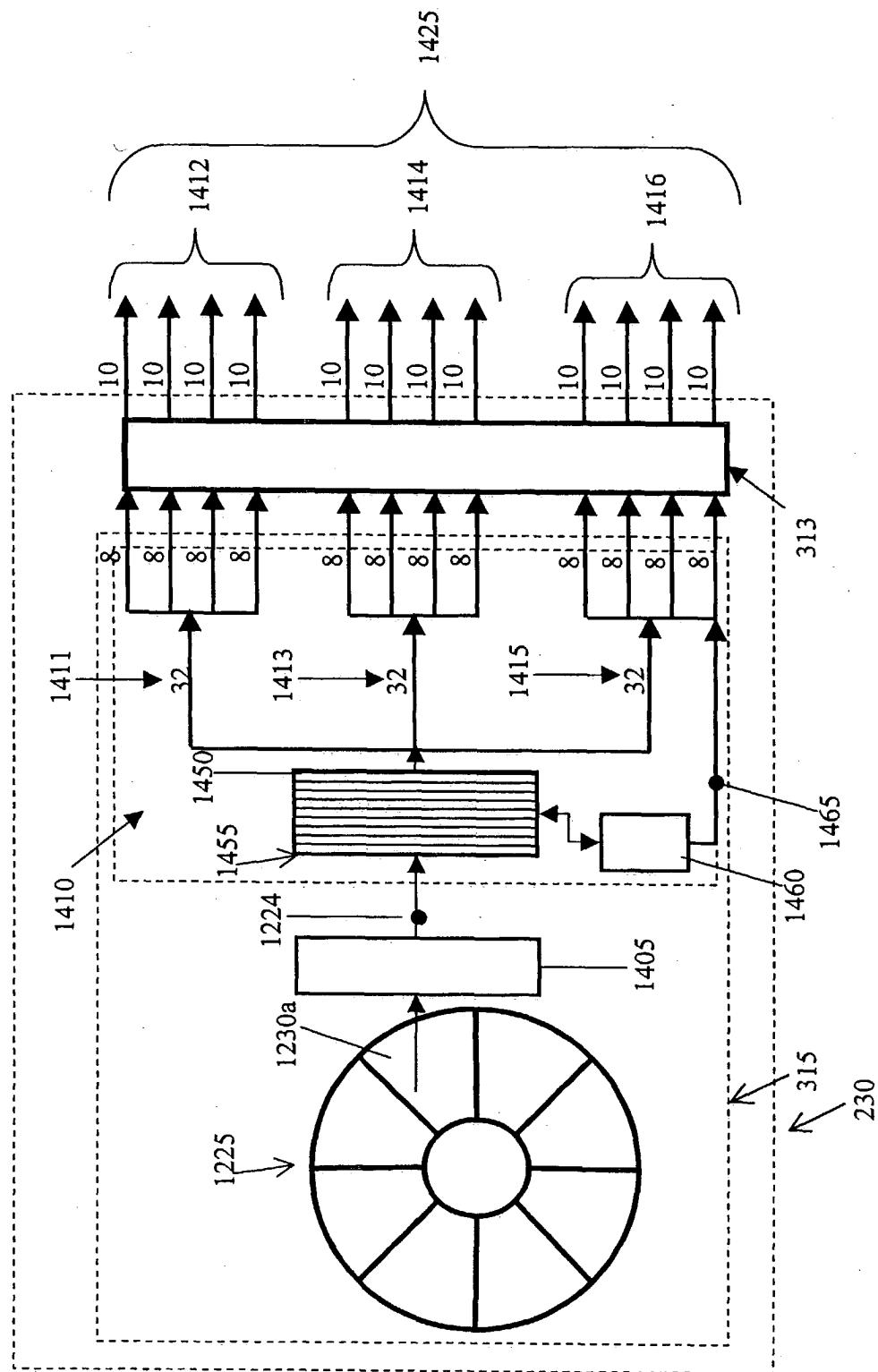


Fig. 14

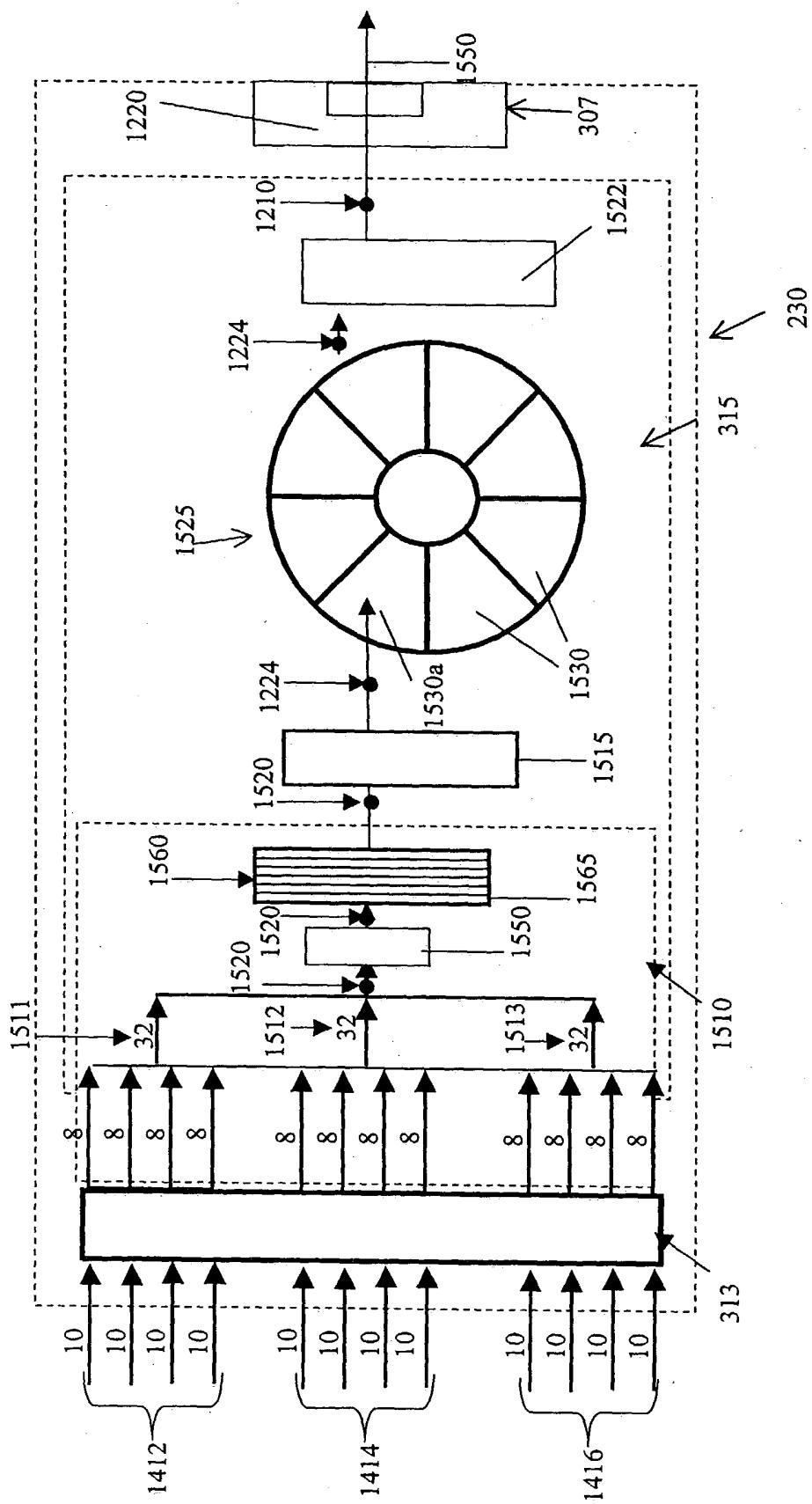


Fig. 15

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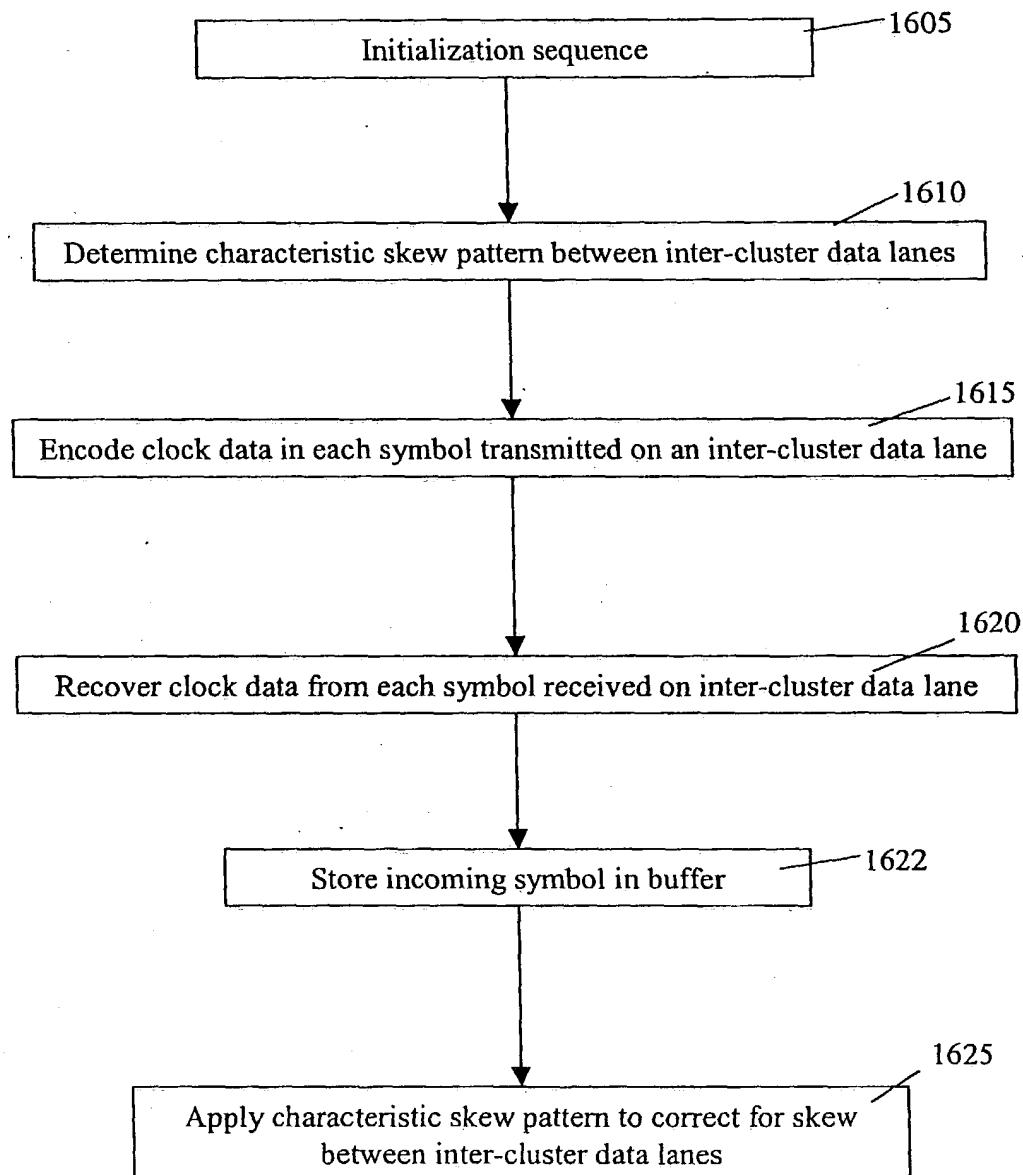


Fig. 16